PATENT COOPERATION TREATY

| From the INTERNATIONAL SEARCHING AUTHORITY | PC.T |
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| To: GENERAL ELECTRIC COMPANY Patent Counsel Attn. Winter, Catherine J. 3135 Easton Turnpike (W3C) Fairfield, Connecticut 06828RECE; | NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION |
| May 1 c 2005 | (PCT Rule 44.1) |
| General Electric C | Date of mailing (day/month/year) 12/05/2005 |
| Applicant's or agent's file reference | |
| 08CL138963 | FOR FURTHER ACTION See paragraphs 1 and 4 below |
| International application No. PCT/US2004/037687 | International filing date (day/month/year) 10/11/2004 |
| Applicant | |
| GENERAL ELECTRIC COMPANY | Ar Action Due 6.01.05 Ar Attorney 50 |
| | Allomey - Allo |
| The applicant is hereby notified that the international search Authority have been established and are transmitted herewi | report and the written and the |
| Where? Directly to the International Bureau of WIPO, 34 1211 Geneva 20, Switzerland, Fa For more detailed instructions, see the notes on the acco | mally 2 months from the date of transmittal of the details, see the notes on the accompanying sheet. chemin des Colombettes ascimile No.: (41–22) 740.14.35 ampanying sheet. |
| The applicant is hereby notified that no international search Article 17(2)(a) to that effect and the written opinion of the Ir With regard to the protest against payment of (an) addition | nternational Searching Authority are transmitted herewith. |
| the protest together with the decision thereon has bee applicant's request to forward the texts of both the pro no decision has been made yet on the protest; the app | n transmitted to the International Bureau together with the test and the decision thereon to the designated Offices. Dicant will be notified as soon as a decision is made. |
| 4. Reminders Shortly after the expiration of 18 months from the priority date, th International Bureau. If the applicant wishes to avoid or postpone application, or of the priority claim, must reach the International B before the completion of the technical preparations for internation | publication, a notice of withdrawal of the international ureau as provided in Rules 90bis.1 and 90bis.3, respectively, |
| The applicant may submit comments on an informal basis on the International Bureau. The International Bureau will send a copy of international preliminary examination report has been or is to be the public but not before the expiration of 30 months from the price | f such comments to all designated Offices unless an established. These comments would also be made available to |
| Within 19 months from the priority date, but only in respect of sor examination must be filed if the applicant wishes to postpone the date (in some Offices even later); otherwise, the applicant must, wacts for entry into the national phase before those designated Offices. | entry into the national phase until 30 months from the priority within 20 months from the priority date, perform the prescribed |
| In respect of other designated Offices, the time limit of 30 months months. | s (or later) will apply even if no demand is filed within 19 |
| See the Annex to Form PCT/IB/301 and, for details about the app Guide, Volume II, National Chapters and the WIPO Internet site. | olicable time limits, Office by Office, see the PCT Applicant's |
| Name and mailing address of the International Searching Authority | Authorized officer |
| European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. | Alicja Van der Heijden |
| Form PCT/ISA/220 (January 2004) Due: | (See notes on accompanying sheet) |

Item:___. Initials:_|/ BESI AVAILABLE COPY

Action Due Attorney

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to fite amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittel of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a damand for international preliminary examination has been in filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The emendments must be made in the language in which the international application to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the latter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged:
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be expiained in the ecompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added.
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Stetement under erticle 19(1)" (Rufe 46.4)

The amendments may be eccompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

it must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a domand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

PATENT COOPERATION TREATY

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INTERNATIONAL SEARCH REPORT

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(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference | FOR FURTHER | |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| | | see Form PCT/ISA/220 well as, where applicable, item 5 below. |
| 08CL138963 International application No. | | |
| memalional application No. | International filing date (day/month/year, | (Earliest) Priority Date (day/month/year) |
| PCT/US2004/037687 | 10/11/2004 | 26/11/2003 |
| Applicant | | |
| GENERAL ELECTRIC COMPANY | | |
| | | |
| This International Search Report has been according to Article 18. A copy is being tra | n prepared by this International Searching ansmitted to the International Bureau. | Authority and is transmitted to the applicant |
| This International Search Report consists | of a total of6 sheets. | |
| FEET | a copy of each prior art document cited in | this report |
| | a copy or case, prior are accountered and | uns report. |
| Basis of the report With regard to the language, the | international search was carried out on the | basis of the international application in the |
| ianguage in which it was nied, uni | ess offerwise molicated under this item. | |
| The international this Authority (Rui | | anslation of the international application furnished to |
| b. With regard to any nucleo | otide and/or amino acid sequence disclo | sed in the international application, see Box No. I. |
| 2. Certain claims were four | nd unsear <i>c</i> hable (See Box II). | · |
| 3. Unity of invention is lack | king (see Box III). | |
| 4. With regard to the title, | | |
| X the text is approved as su | bmitted by the applicant. | |
| the text has been establis | hed by this Authority to read as follows: | |
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| 5. With regard to the abstract, | | |
| the text is approved as sul | | |
| the text has been establish may, within one month from | ned, according to Rule 38.2(b), by this Auth m the date of mailing of this international s | nority as it appears in Box No. IV. The applicant earch report, submit comments to this Authority. |
| 6. With regard to the drawings, | • | |
| a. the figure of the drawings to be pe | ublished with the abstract is Figure No | |
| as suggested by the | | |
| as selected by this | Authority, because the applicant failed to | suggest a figure. |
| = | Authority, because this figure better chara | |
| b. X none of the figures is to be | published with the abstract. | |

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/037687 CLASSIFICATION OF SUBJECT MATTER PC 7 G11B23/28 G01N G01N21/95 G01N21/64 G11B7/24 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) G01N G11B IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. GB 1 487 967 A (MINNESOTA MINING & MFG CO) 12 5 October 1977 (1977-10-05) page 2, lines 108-115; claim 9 X EP 0 625 766 A (NHK SPRING CO., LTD) 12 23 November 1994 (1994-11-23) claim 13 column 7, lines 21-27; figure 1 X DE 10 11 851 B (GELSENKIRCHENER 12 BERGWERKS-AKTIEN-GESELLSCHAFT) 11 July 1957 (1957-07-11) claims 1,11; figures 1,2 Further documents are listed in the continuation of box C. Patent family members are listed in annex. 'Special categories of cited documents: "T" later document published after the International filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 3 May 2005 12/05/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Stabel, A

Fax: (+31-70) 340-3016

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/037687

| C.(Continua | ation) DOCUMENTS CONSIDERED TO BE RELEVANT | 04/03/68/ | | | |
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| Category ° | | | Relevant to claim No. | | |
| A | US 2003/021998 A1 (HUBBARD STEVEN FREDERICK ET AL) 30 January 2003 (2003-01-30) cited in the application claim 1 | | 1-13 | | |
| A | WO 98/29238 A (EASTMAN CHEMICAL COMPANY; CYR, MICHAEL, J; CLAUBERG, HORST; HELTON, TO) 9 July 1998 (1998-07-09) claim 19; example EXAMPLE | | 1-13 | | |
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/US2004/037687

| | atent document d in search report | | Publication date | | Patent family member(s) | Publication date |
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| EP | EP 0625766 | А | 23-11-1994 | JP | 2821352 B2 | 05-11-1998 |
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| WO | WO 9829238 | A | 09-07-1998 | AU | 7889198 A | 31-07-1998 |
| | • | | | EP | 0951384 A1 | 27-10-1999 |
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| | | | | US | 6099930 A | 08-08-2000 |
| | | | | WO | 9829238 A1 | 09-07-1998 |

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